


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐**APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER NBU 921-17D		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				3. FIELD OR WILDCAT NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				7. OPERATOR PHONE 720 929-6587		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0575		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	985 FNL 418 FWL	NWNW	17	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	985 FNL 418 FWL	NWNW	17	9.0 S	21.0 E	S
At Total Depth	985 FNL 418 FWL	NWNW	17	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 418		23. NUMBER OF ACRES IN DRILLING UNIT 1600		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1200		26. PROPOSED DEPTH MD: 10500 TVD: 10500		
27. ELEVATION - GROUND LEVEL 4789		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
NAME Danielle Piernot	TITLE Regulatory Analyst
SIGNATURE	PHONE 720 929-6156
API NUMBER ASSIGNED 43047507000000	DATE 08/27/2009
APPROVAL	EMAIL danielle.piernot@anadarko.com
 Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10500		
Pipe	Grade	Length	Weight			
	Grade HCP-110 LT&C	900	11.6			
	Grade I-80 Buttreass	9600	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2775		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2775	36.0			

T9S, R21E, S.L.B.&M.

Found 2006
Aluminum Cap
in Pile of Stones.

S89°57.0'W - 40.075 (G.L.O.)
N89°58'32"W - 2645.06' (Meas.)

N89°50.1'W - 40.073 (G.L.O.)
N89°45'51"W - 2644.91' (Meas.)

Found 2006
Aluminum Cap in
Pile of Stones

N0°02.1'W - 39.975 (G.L.O.)
N00°02'23"E - 2638.47' (Meas.)

985'
418' ← Proposed Well

Found 2006
Aluminum Cap in
Pile of Stones with T
Post on East edge.

N00°09'03"E (Basis of Bearings)
2649.93' (Measured)
N0°05.1'E - 40.148 (G.L.O.)

**WELL LOCATION:
NBU 921-17D**

ELEV. UNGRADED GROUND = 4788.8'

Found 2006
Aluminum Cap
in Pile of Stones.

N0°08.6'W - 40.320 (G.L.O.)
N00°03'52"W - 2661.19' (Meas.)

17

NBU 921-17D (Proposed Well Head)
NAD 83 LATITUDE = 40.040680° (40° 02' 26.449")
LONGITUDE = 109.583569° (109° 35' 00.849")
NAD 27 LATITUDE = 40.040716° (40° 02' 26.576")
LONGITUDE = 109.582879° (109° 34' 58.364")

Found 2006
Aluminum Cap
in Pile of Stones.

N00°01'53"W - 2647.25' (Meas.)
N0°06.0'W - 40.110 (G.L.O.)

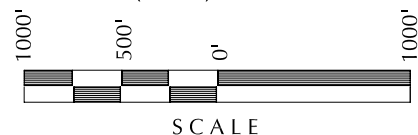
Found 2006
Aluminum Cap
in Pile of Stones

Found 2006
Aluminum Cap
in Pile of Stones

Found 2006
Aluminum Cap
with Set Stone
North of Cap

N89°54'13"W - 2634.82' (Meas.)
N89°58.7"W - 39.921 (G.L.O.)

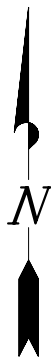
N89°53'24"W - 2648.44' (Meas.)
N89°57.5'W - 40.129 (G.L.O.)



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-17D

NBU 921-17D

WELL PLAT

985' FNL, 418' FWL

**NW ¼ NW ¼ OF SECTION 17, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.**

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-15-09	SURVEYED BY: M.S.B..	SHEET NO: 1 1 OF 9
DATE DRAWN: 04-16-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised:	

NBU 921-17D

Surface: 985' FNL 418' FWL (NW/4NW/4)
Sec. 17 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

**1. – 2. Estimated Tops of Important Geologic Markers:
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,773'	
Birds Nest	2,055'	Water
Mahogany	2,573'	Water
Wasatch	5,190'	Gas
Mesaverde	8,307'	Gas
MVU2	9,268'	Gas
MVL1	9,823'	Gas
TD	10,500'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,500' TD, approximately equals 6,542 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,232 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found

competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see

attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

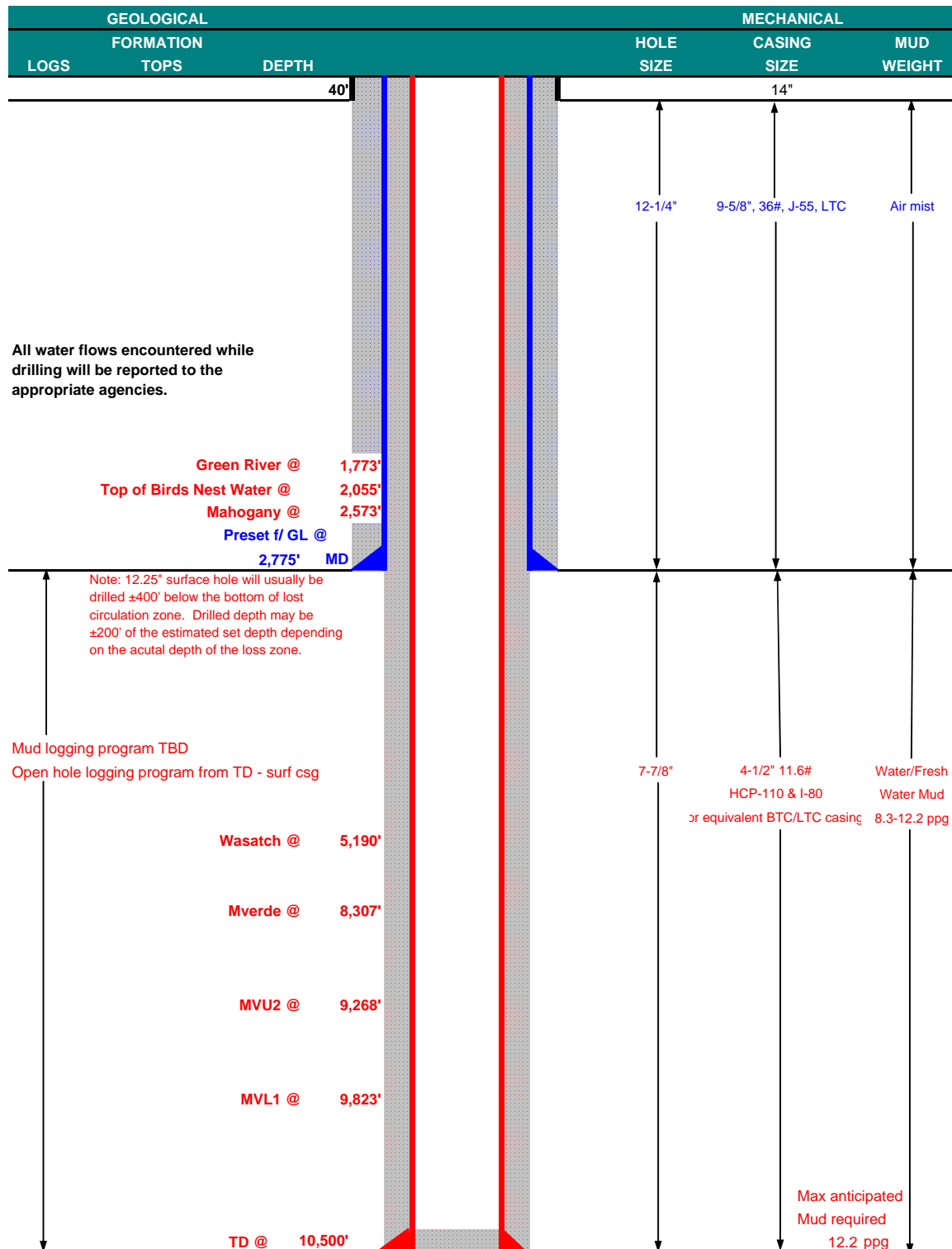
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	August 25, 2009		
WELL NAME	NBU 921-17D					TD	10,500' MD/TVD		
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,788'	
SURFACE LOCATION	NW/4 NW/4	985' FNL	418' FWL	Sec 17	T 9S	R 21E	BHL	Straight Hole	
	Latitude: 40.040680		Longitude: -109.583569			NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2775	36.00	J-55	LTC	0.81*	1.56	4.53
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	1.79	1.04	2.81
						10,690	8,650	279,000
		9600 to 10500	11.60	HCP-110	LTC	2.46	1.30	32.85

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.01

1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.2 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4,232 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.2 ppg)

0.62 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,542 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1 TOP OUT CMT (6 jobs)	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE Option 2	2,275'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	260	35%	11.00	3.82
	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	4,690'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel ' + 1% Retarder	450	40%	11.00	3.38
	5,810'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1420	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

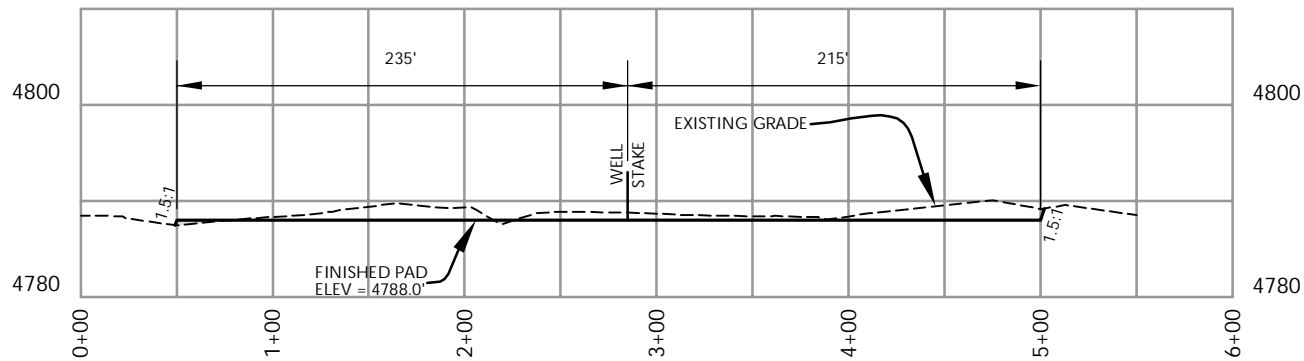
John Huycke / Emile Goodwin

DATE:

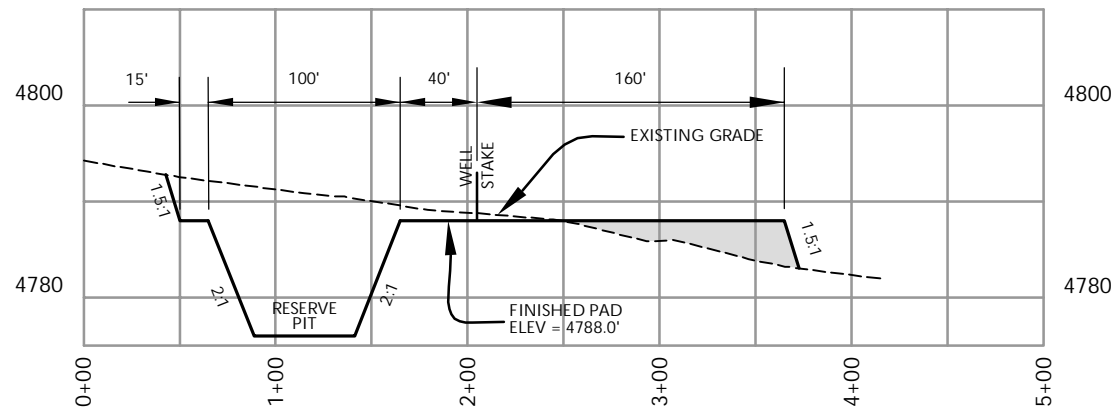
DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-17D

WELL PAD - CROSS SECTIONS
NBU 921-17D

985' FNL, 418' FWL
NW1/4 NW1/4 OF SECTION 17, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100'

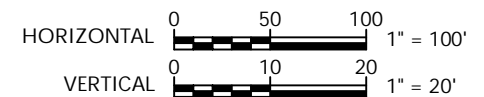
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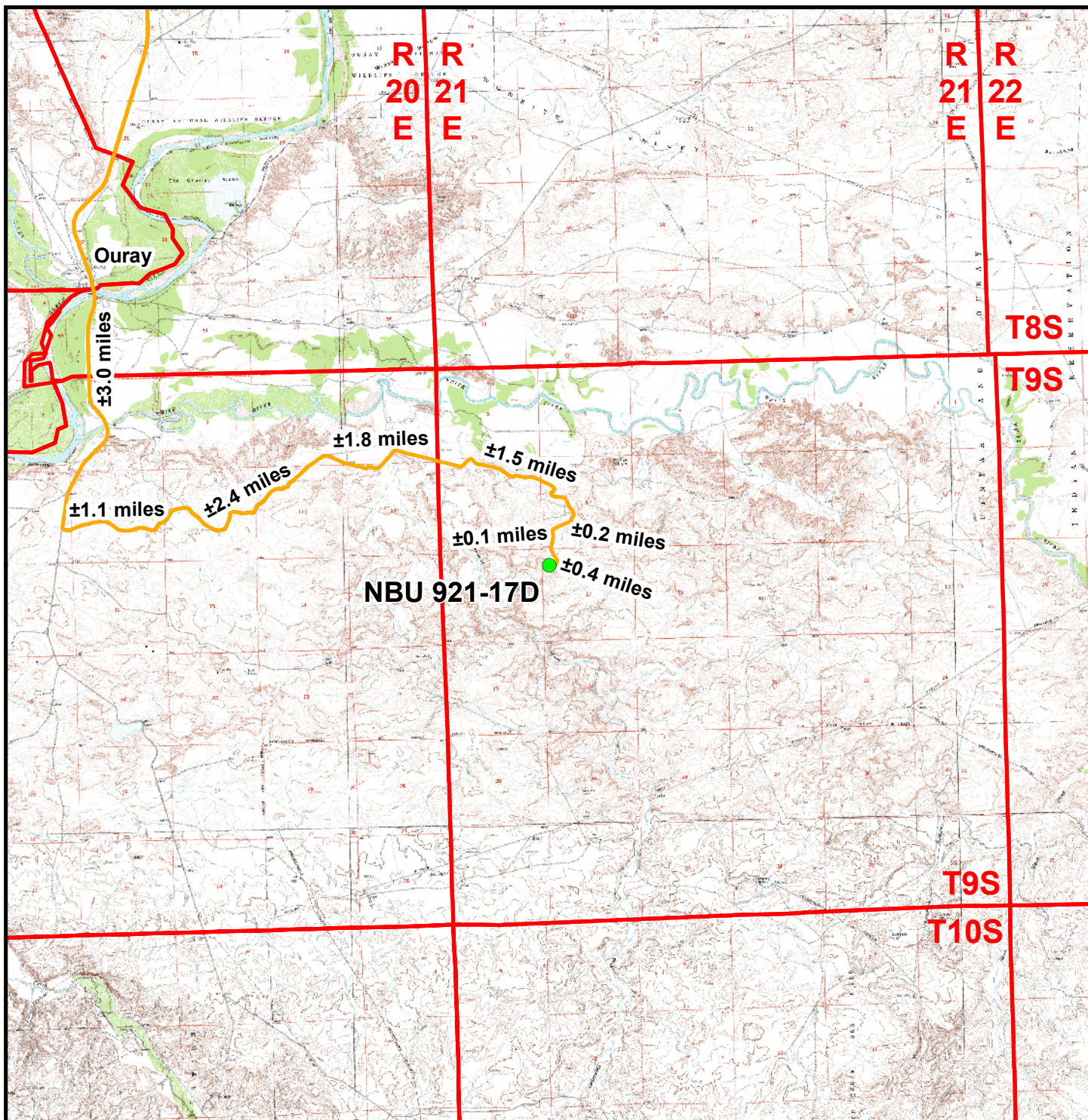
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3 OF 9

REVISED:



TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078



Legend

- Proposed NBU 921-17D Well Location
- Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

Well Pad - NBU 921-17D

NBU 921-17D

Topo A

985' FNL, 418' FWL

NW¼ NW¼, Section 17, T9S, R21E

S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000

NAD83 USP Central

Sheet No:

Drawn: JELO

Date: 20 April 2009

Revised:

Date:

5

5 of 9

Total Proposed Road Length: ±1,980ft

- Well - Proposed
 Well Pad
 - - - Road - Proposed
 — Road - Existing

**NW¹/₄ NW¹/₄, Section 17, T9S, R21E
S.L.B.&M., Uintah County, Utah**



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: JELO	Date: 20 April 2009
Revised:	Date:

Sheet No:



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 Well - Proposed
  Well - 1 Mile Radius
  Producing
  Location Abandoned
  Shut-In
 Well Pad
  Approved permit (APD); not yet spudded
  Temporarily-Abandoned
 Spudded (Drilling commenced: Not yet comple
  Plugged and Abandoned

7 of 9

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: $\pm 2,020\text{ft}$
Proposed Pipeline Length Around Pad: $\pm 660\text{ft}$

 Well - Proposed
 Well Pad
 Pipeline - Proposed
 Road - Proposed
 Pipeline - Existing
 Road - Existing

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

Well Pad - NBU 921-17D

NBU 921-17D

Topo D

985' FNL, 418' FWL

NW¹/₄ NW¹/₄, Section 17, T9S, R21E

S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
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Drawn: JELO Date: 20 April 2009
Revised: Date:

Sheet No:

8

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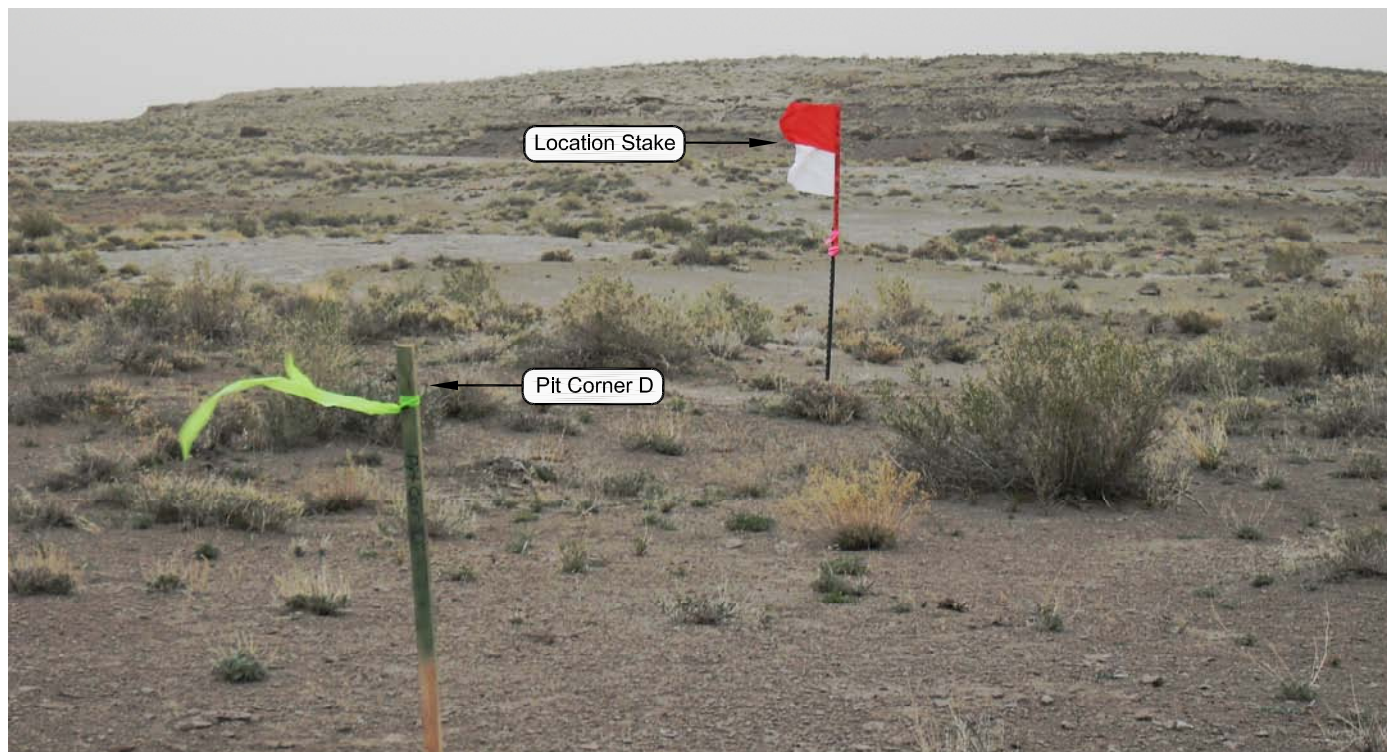


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: EASTERLY

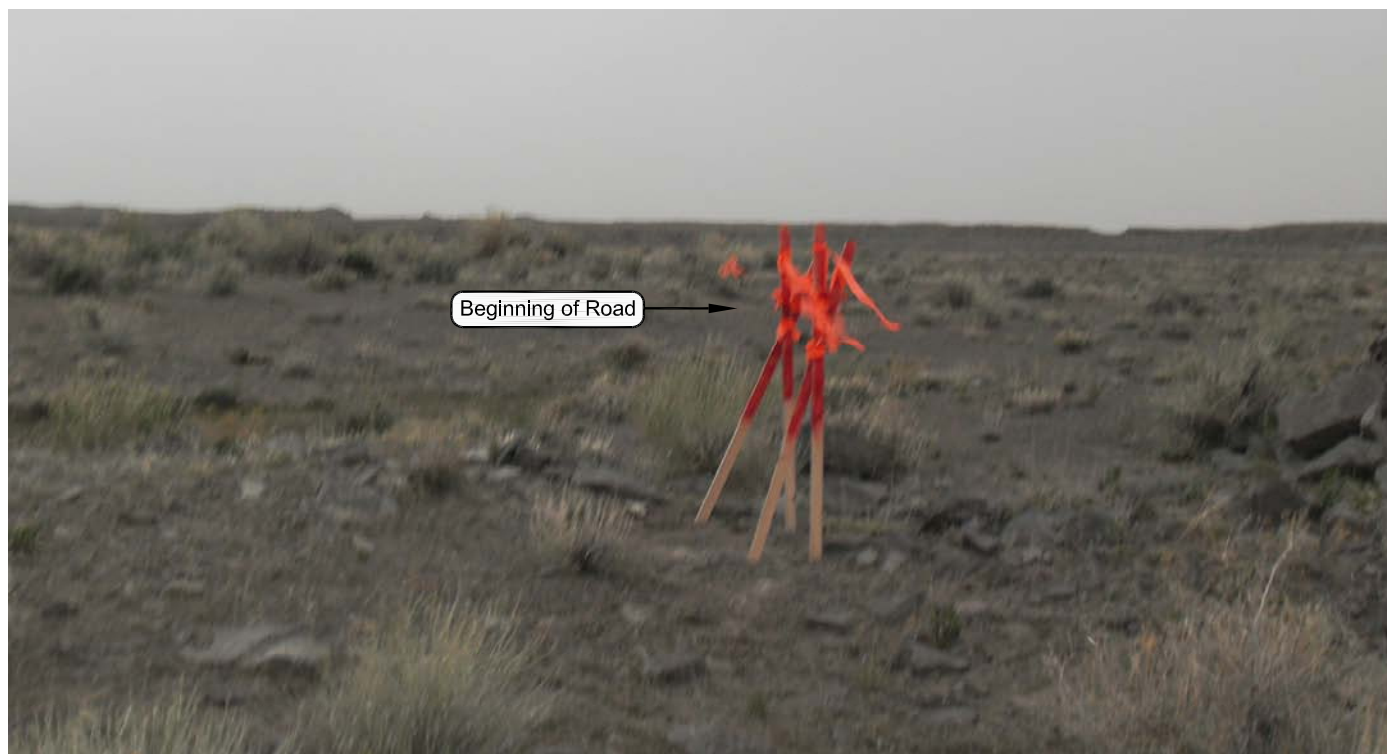


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

Well Pad - NBU 921-17D

**NBU 921-17D
LOCATION PHOTOS
985' FNL, 418' FWL
NW $\frac{1}{4}$ NW $\frac{1}{4}$ OF SECTION 17, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.**



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Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 04-15-09	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 4 4 OF 9
DATE DRAWN: 04-16-09	DRAWN BY: K.K.O.	
Date Last Revised:		

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-17D
WELL - NBU 921-17D
Section 17, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 3.0 MILES TO A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 2.4 MILES TO A THIRD SERVICE ROAD TO THE EAST. EXIT RIGHT AND PROCEED IN AN EAST BY SOUTHEAST DIRECTION ALONG THE THIRD SERVICE ROAD APPROXIMATELY 1.8 MILES TO A FOURTH SERVICE ROAD TO THE SOUTHEAST. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE FOURTH SERVICE ROAD APPROXIMATELY 1.5 MILES TO A FIFTH SERVICE ROAD TO THE SOUTHWEST. EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE EOG 325-8E WELL PAD. PROCEED SOUTHERLY CROSSING THE EOG 325-8E WELL PAD APPROXIMATELY 350 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 1,980 FEET THE PROPOSED WELL LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.2 MILES IN A SOUTHERLY DIRECTION.

NBU 921-17D

Surface: 985' FNL 418' FWL (NW/4NW/4)
Sec. 17 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in NW/4 NW/4 of Section 17 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting is scheduled for September 1-3, 2009. Please contact Raleen White at 720-929-6666 for any questions.

A. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

B. Planned Access Roads:

See MDP for additional details on road construction.

Approximately $\pm 1,980'$ (± 0.38 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

C. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

D. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 2,680'$ (± 0.51 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

E. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

F. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

I. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

J. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

K. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

L. Other Information:

See MDP for additional details on Other Information.

M. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Kathy Schneebeck Dulnoan

August 27, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S 51 PROPOSED WELL LOCATIONS
(T9S, R21E, SECTIONS 7, 8, 10, 11, 12,
17, 18, 19, 20, 23, 25, AND 30)
IN UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 09-39

May 11, 2009

United States Department of Interior (FLPMA)
Permit No. 09-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A09-363

IPC #09-96

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Well Pads, Access Roads
& Pipelines for "NBU #921-17C, D, F, &18P"
(Sec. 8, 17, & 18, T 9 S, R 21 E)**

Ouray SE
Topographic Quadrangle
Uintah County, Utah

June 24, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report #: GCI #61

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-17B, NBU 921-17C, NBU921-17D, NBU 921-17F, NBU921-17G, NBU921-17H

Pipelines: Associated pipelines to proposed well pads

Access Roads: Associated access roads to proposed well pads

Location: Section 17, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*) and nesting raptors

Date: 06/24/2009

Observer(s): Grasslands Consulting, Inc. Biologists: Dan Hamilton, Jay Slocum, Matt Kelahan, and Jonathan Sexauer. Technician: Chad Johnson

Weather: Partly cloudy, 75-90°F, 0-15 mph winds with no precipitation.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

August 28, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit Uintah
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50640	NBU 1022-8B1DS	Sec 08 T10S R22E 0931 FNL 1709 FEL
	BHL	Sec 08 T10S R22E 0367 FNL 1518 FEL
43-047-50641	NBU 1022-8B4AS	Sec 08 T10S R22E 0919 FNL 1693 FEL
	BHL	Sec 08 T10S R22E 0744 FNL 1518 FEL
43-047-50642	NBU 1022-8C1AS	Sec 08 T10S R22E 0943 FNL 1725 FEL
	BHL	Sec 08 T10S R22E 0102 FNL 2415 FWL
43-047-50643	NBU 1022-8C1CS	Sec 08 T10S R22E 0955 FNL 1742 FEL
	BHL	Sec 08 T10S R22E 0418 FNL 2252 FWL
43-047-50644	NBU 922-30C3S	Sec 30 T09S R22E 1253 FNL 0663 FWL
	BHL	Sec 30 T09S R22E 1238 FNL 1154 FWL
43-047-50645	NBU 922-30D3AS	Sec 30 T09S R22E 1232 FNL 0607 FWL
	BHL	Sec 30 T09S R22E 0680 FNL 0382 FWL
43-047-50646	NBU 921-30C3CS	Sec 30 T09S R21E 0783 FNL 0920 FWL
	BHL	Sec 30 T09S R21E 0993 FNL 1985 FWL
43-047-50647	NBU 921-30D2DS	Sec 30 T09S R21E 0747 FNL 0871 FWL
	BHL	Sec 30 T09S R21E 0460 FNL 0665 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50648	NBU 921-30D3DS	Sec 30 T09S R21E 0759 FNL 0887 FWL BHL Sec 30 T09S R21E 1152 FNL 0665 FWL
43-047-50649	NBU 921-30E2AS	Sec 30 T09S R21E 0771 FNL 0903 FWL BHL Sec 30 T09S R21E 1522 FNL 0665 FWL
43-047-50650	NBU 1022-7N1S	Sec 07 T10S R22E 0089 FSL 1920 FEL BHL Sec 07 T10S R22E 0895 FSL 1870 FWL
43-047-50651	NBU 1022-7N4S	Sec 07 T10S R22E 0097 FSL 1938 FEL BHL Sec 07 T10S R22E 0595 FSL 1740 FWL
43-047-50652	NBU 1022-7O4AS	Sec 07 T10S R22E 0081 FSL 1902 FEL BHL Sec 07 T10S R22E 0550 FSL 1560 FEL
43-047-50653	NBU 1022-7O4DS	Sec 07 T10S R22E 0074 FSL 1883 FEL BHL Sec 07 T10S R22E 0230 FSL 1650 FEL
43-047-50655	NBU 922-30D3DS	Sec 30 T09S R22E 1226 FNL 0588 FWL BHL Sec 30 T09S R22E 1314 FNL 0352 FWL
43-047-50656	NBU 922-30E2AS	Sec 30 T09S R22E 1246 FNL 0645 FWL BHL Sec 30 T09S R22E 1636 FNL 0352 FWL
43-047-50678	NBU 922-31G4BS	Sec 31 T09S R22E 2317 FSL 0188 FEL BHL Sec 31 T09S R22E 1994 FNL 1808 FEL
43-047-50679	NBU 922-31G4CS	Sec 31 T09S R22E 2316 FSL 0198 FEL BHL Sec 31 T09S R22E 2353 FNL 1796 FEL
43-047-50680	NBU 922-31I1AS	Sec 31 T09S R22E 2317 FSL 0178 FEL BHL Sec 31 T09S R22E 2483 FSL 0243 FEL
43-047-50681	NBU 922-31I1DS	Sec 31 T09S R22E 2317 FSL 0168 FEL BHL Sec 31 T09S R22E 2137 FSL 0264 FEL
43-047-50682	NBU 921-12J	Sec 12 T09S R21E 1959 FSL 2051 FEL
43-047-50684	NBU 1022-6I3AS	Sec 06 T10S R22E 1160 FSL 1584 FEL BHL Sec 06 T10S R22E 1684 FSL 1167 FEL
43-047-50685	NBU 1022-6J4CS	Sec 06 T10S R22E 1178 FSL 1593 FEL BHL Sec 06 T10S R22E 1535 FSL 1760 FEL
43-047-50686	NBU 1022-6O1BS	Sec 06 T10S R22E 1124 FSL 1567 FEL BHL Sec 06 T10S R22E 1197 FSL 1811 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50687	NBU 1022-6P1CS	Sec 06 T10S R22E 1142 FSL 1575 FEL BHL Sec 06 T10S R22E 0989 FSL 0541 FEL
43-047-50691	NBU 921-29A3AS	Sec 29 T09S R21E 0299 FNL 2630 FEL BHL Sec 29 T09S R21E 0700 FNL 0885 FEL
43-047-50692	NBU 921-29A3DS	Sec 29 T09S R21E 0303 FNL 2628 FWL BHL Sec 29 T09S R21E 1193 FNL 0885 FEL
43-047-50694	NBU 921-29A2AS	Sec 29 T09S R21E 0296 FNL 2611 FEL BHL Sec 29 T09S R21E 0209 FNL 0885 FEL
43-047-50693	NBU 921-29B2CS	Sec 29 T09S R21E 0307 FNL 2608 FWL BHL Sec 29 T09S R21E 0443 FNL 2635 FEL
43-047-50695	NBU 921-12N	Sec 12 T09S R21E 0441 FSL 2236 FWL
43-047-50698	NBU 921-19F	Sec 19 T09S R21E 2236 FNL 2285 FWL
43-047-50699	NBU 921-17C	Sec 17 T09S R21E 0656 FNL 2004 FWL
43-047-50700	NBU 921-17D	Sec 17 T09S R21E 0985 FNL 0418 FWL
43-047-50701	NBU 921-17G	Sec 17 T09S R21E 1500 FNL 2262 FEL
43-047-50702	NBU 921-17H	Sec 17 T09S R21E 2100 FNL 0553 FEL
43-047-50703	NBU 921-18P	Sec 18 T09S R21E 1080 FSL 0197 FEL
43-047-50704	NBU 921-19E	Sec 19 T09S R21E 2061 FNL 0842 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron

Fluid Chron

MCoulthard:mc:8-28-09

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/27/2009

API NO. ASSIGNED: 43047507000000

WELL NAME: NBU 921-17D

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNW 17 090S 210E

Permit Tech Review: ☒

SURFACE: 0985 FNL 0418 FWL

Engineering Review: ☒

BOTTOM: 0985 FNL 0418 FWL

Geology Review: ☒

COUNTY: Uintah

LATITUDE: 40.04059

LONGITUDE: -109.58287

UTM SURF EASTINGS: 620900.00

NORTHINGS: 4433015.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0575

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ **PLAT**

☒ **Bond:** FEDERAL - WYB000291

☐ **Potash**

☒ **Oil Shale 190-5**

☐ **Oil Shale 190-3**

☐ **Oil Shale 190-13**

☒ **Water Permit:** Permit #43-8496

☐ **RDCC Review:**

☐ **Fee Surface Agreement**

☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

☐ **R649-2-3.**

Unit: NATURAL BUTTES

☐ **R649-3-2. General**

☐ **R649-3-3. Exception**

☒ **Drilling Unit**

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: 460' fr u bdry & uncomm. tract

☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
4 - Federal Approval - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-17D
API Well Number: 43047507000000
Lease Number: UTU 0575
Surface Owner: INDIAN
Approval Date: 9/1/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

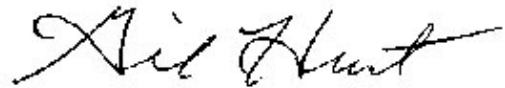
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, flowing script.

Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0418 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507000000			
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/31/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.					
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining </div>		Date: <u>August 31, 2010</u> By:			
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 8/31/2010					



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources
Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507000000

API: 43047507000000

Well Name: NBU 921-17D

Location: 0985 FNL 0418 FWL QTR NWNW SEC 17 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/1/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 8/31/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 31, 2010

By: 

RECEIVED August 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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AUG 27 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0575
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	8. Lease Name and Well No. NBU 921-17D
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW 985FNL 418FWL 40.04068 N Lat, 109.58357 W Lon At proposed prod. zone NWNW 985FNL 418FWL 40.04068 N Lat, 109.58357 W Lon		9. API Well No. 43 047 50700
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 11 MILES SOUTHEAST OF OURAY, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 418 FEET	16. No. of Acres in Lease 1600.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T9S R21E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 1200 FEET	19. Proposed Depth 10500 MD 10500 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4789 GL	22. Approximate date work will start 09/14/2009	13. State UT
20. BLM/BIA Bond No. on file WYB000291		17. Spacing Unit dedicated to this well
23. Estimated duration 60-90 DAYS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 08/27/2009
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) James H. Sparger	Date NOV 03 2010
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #73711 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 08/28/2009 ()

NOTICE OF APPROVAL

UDOGM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore, LP Location: NWNW, Sec. 17, T9S, R21E
Well No: NBU 921-17D Lease No: UTU-0575
API No: 43-047-50700 Agreement: Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Site-Specific Conditions of Approval:

1. Paint facilities "Shadow Gray."
2. Route storm water runoff away from and around the well pad from the southwest to the northeast.
3. Monitor location by a permitted archaeologist during the construction process.
4. Monitor location by a permitted paleontologist during the construction process.
5. If the gathering line will be installed aboveground, follow the procedures specified in the BLM's Hydraulic consideration for Pipeline Crossings of Stream Channels (BLM, 2003)
6. In accordance with the guidelines specified in the Guidelines for Raptor Protection from Human and Land Use Disturbances, a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 01 through September 30). If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D). The USFWS and BLM recommend a ¼-mile avoidance buffer surrounding active burrowing owl nest between March 1 and Aug 31.
7. If project construction operations are not initiated before June 24, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.

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6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

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**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 07/17/08 and approved 07/28/08) shall be on location.

A variance is granted to the operators APD request to not conduct a pressure integrity test (also known as a formation integrity test – FIT) covering 5M BOPE systems, as covered in Onshore Order #2 Drilling Operations III. B. i. "pressure integrity test of each casing shoe".

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

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- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

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- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0418 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507000000			
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH			
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/12/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. In addition, Kerr-McGee respectfully request approval in the well design, which includes hole and casing size changes. Please see attached for additional details. Please contact the undersigned if you have any questions and/or comments. Thank you.					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 4/12/2011		DATE 04/14/2011			

Approved by the
 Utah Division of
 Oil, Gas and Mining

Date: 04/14/2011
 By:



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	April 12, 2011		
WELL NAME	NBU 921-17D					TD	11,611'	TVD	11,611' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4,788'
SURFACE LOCATION	NWNW	985 FNL	418 FWL	Sec 17	T 9S	R 21E			
	Latitude:	40.040680	Longitude:	-109.583569		NAD 27			
BTM HOLE LOCATION	NWNW	985 FNL	418 FWL	Sec 17	T 9S	R 21E			
	Latitude:	40.040680	Longitude:	-109.583569		NAD 27			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), TRIBAL (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p>			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @	1,766'			
	Top of Birds Nest @	2,053'			
	Mahogany @	2,432'			
	Preset f/ GL @	2,880' MD			
<p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p>					
	Wasatch @	5,184'			
<p>Mud logging program TBD Cased hole logging program from TD - surf csg</p>			7-7/8"	4-1/2" 11.6# HCP-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde	8,276' TVD			
	MVU2 @	9,261' TVD			
	MVU1 @	9,811' TVD			
	Sego @	10,578' TVD			
	Castlegate @	10,628' TVD			
	MN5 @	11,011' TVD			
<p>Max anticipated Mud required</p>					
13.0 ppg	TD @	11,661' TVD 11,661' MD			



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	BTC
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,880	28.00	IJ-55	LTC	1.88	1.39	4.93	N/A
PRODUCTION	4-1/2"	0 to 11,611	11.60	HCP-110	LTC or BTC	1.19	1.10	2.58	3.40

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

9000 psi)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,380'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	220	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,681'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	10%	11.00	3.38
	TAIL	6,930'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,330	10%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Emile Goodwin

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0418 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507000000			
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 05/11/2011 AT 0900 HRS.					
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY					
NAME (PLEASE PRINT) Sheila Wopsock		PHONE NUMBER 435 781-7024			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 5/11/2011					

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 921-17D
Qtr/Qtr NWNW Section 17 Township 9S Range 21E
Lease Serial Number UTU-0575
API Number 4304750700

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/11/2011 0900 HRS AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

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MAY 09 2011

DEPT. OF OIL, GAS & MINING

Date/Time 05/14/2011 0800 HRS AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
KENNY GATHINGS AT 435.781.7048 FOR MORE

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575			
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D			
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON MAY 13, 2011. DRILLED SURFACE HOLE TO 2910'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.					
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 5/16/2011					

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750700	NB 921-17D		NWNW	17	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	5/11/2011			<u>5/31/11</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSM VD</u> SPUD WELL LOCATION ON 05/11/2011 AT 0900 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

5/11/2011

Date

(5/2000)

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MAY 11 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0418 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507000000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/11/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2910' TO 11,615' ON JUNE 9, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON JUNE 11, 2011 @ 23:50 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 6/13/2011		

Carol Daniels - NOTIFICATION OF PRODUCTION CASING & CEMENT NBU 921-17D

T09S R21E S-17 43-047-50700

From: "Anadarko - H&P 298"

To:

Date: 6/9/2011 8:20 AM

Subject: NOTIFICATION OF PRODUCTION CASING & CEMENT NBU 921-17D

Carol,

We will be running 41/2 11.6# P-110 BTC casing & cementing ,on NBU 921-17D saturday starting @ 2:00 am
06/11/2011 w/casing set @ 11,600 with a td of 11,615 ft
sunday or monday we will moving the rig to NBU 921-20D pad 1st well drilled is the NBU 921-20D4BS

thanks

JIM MURRAY
H&P 298
435 828-0957

RECEIVED

JUN 09 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17D
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0985 FNL 0418 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507000000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/8/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 08/08/2011 AT 6:45 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/9/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU0575		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator KERR MCGREE OIL & GAS ONSHORE			7. Unit or CA Agreement Name and No. UTU63047A		
Contact: ANDREW LYTLE Email: andrew.lytle@anadarko.com			8. Lease Name and Well No. NBU 921-17D		
3. Address P.O. BOX 173779 DENVER, CO 80217		3a. Phone No. (include area code) Ph: 720-929-6100		9. API Well No. 43-047-50700	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW 985FNL 418FWL 40.040716 N Lat, 109.582879 W Lon At top prod interval reported below NWNW 985FNL 418FWL 40.040716 N Lat, 109.582879 W Lon At total depth NWNW 985FNL 418FWL 40.040716 N Lat, 109.582879 W Lon			10. Field and Pool, or Exploratory NATURAL BUTTES		
14. Date Spudded 05/11/2011			15. Date T.D. Reached 06/09/2011		11. Sec., T., R., M., or Block and Survey or Area Sec 17 T9S R21E Mer SLB
16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 08/08/2011			12. County or Parish UINTAH		
17. Elevations (DF, KB, RT, GL)* 4788 GL			13. State UT		
18. Total Depth: MD 11615 TVD 11610		19. Plug Back T.D.: MD 11578 TVD 11573		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHVS-SD/DSN/ACTR-SCBL			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
11.000	8.625 IJ-55	28.0		2909		670		0	
7.875	4.500 P-110	11.6		11600		2130		250	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	11095							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8454	11459	8454 TO 11459	0.360	190	OPEN
B) WSMVD						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8454 TO 11459	PUMP 12,641 BBLs SLICK H2O & 263,763# SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/08/2011	08/11/2011	24	→	0.0	3843.0	720.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
18/64	SI 2475	1045.0	→	0	3843	720		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #117217 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1766 2053 2432 5211 8276	8276 11615			

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #117217 Verified by the BLM Well Information System.
For KERR MCGREE OIL & GAS ONSHORE,, sent to the Vernal**

Name (please print) ANDREW LYTLETitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 09/09/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17D	Spud Conductor: 5/11/2011	Spud Date: 5/14/2011
Project: UTAH-UINTAH	Site: NBU 921-17D	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 4/24/2011	End Date: 6/11/2011
Active Datum: RKB @4,814.00ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/13/2011	10:00 - 18:00	8.00	MIRU	01	A	P		MOVE RIG IN OFF THE NBU 1022-7G1BS
	18:00 - 21:00	3.00	MIRU	01	B	P		DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP.
	21:00 - 0:00	3.00	MIRU	21	D	Z		WAIT ON MUD MOTOR // JD FIELD SERVICES TRUCK W/ LAST LOAD (MUD MOTOR, CATWALK & PIPE RACKS) BROKE DN IN ROUTE TO NEW LOC.
5/14/2011	0:00 - 1:30	1.50	MIRU	21	D	Z		WAIT ON MUD MOTOR // JD FIELD SERVICES TRUCK W/ LAST LOAD (MUD MOTOR, CATWALK & PIPE RACKS) BROKE DN IN ROUTE TO NEW LOC.
	1:30 - 2:00	0.50	PRPSPD	06	A	P		PU 12-1/4" BIT (SN-7133231) & MM (SN-8059) & INSTALL RUBBER
	2:00 - 4:00	2.00	DRLSUR	02	B	P		SPUD SURFACE 05/14/2011 @ 02:00 HRS. DRILL 12.25" SURFACE HOLE F/40'-210' (170' @ 85'/HR) PSI ON/ OFF 700/500, UP/ DOWN/ ROT 27/22/25. 532 GPM, 45 RPM ON TOP DRIVE, 90 RPM ON MM , 15-18K WOB
	4:00 - 4:30	0.50	DRLSUR	06	A	P		TOOH & LD 12-1/4" BIT
	4:30 - 7:00	2.50	DRLSUR	06	A	P		PU 11" BIT (SN-7133300), WEATHERFORD DIR TOOLS, SCRIBE, & TIH T/210'
	7:00 - 17:00	10.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-1640' (1430' @ 143'/HR) PSI ON/ OFF 1300/1100, UP/ DOWN/ ROT 61/59/60. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE, MM 90 RPM, CIRCULATING RESERVE PIT// NO LOSSES
	17:00 - 0:00	7.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 1640'-2630' (990' @ 141'/HR) PSI ON/ OFF 1500/1350, UP/ DOWN/ ROT 71/68/70. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE, MM 90 RPM, CIRCULATING RESERVE PIT// NO LOSSES
5/15/2011	-		CSG					3. All date/time fields must be entered using the same format as Open Wells. It is: mm/dd/yyyy hh:mm

Copy and paste only the "crapola" below here!!!

CONDUCTOR CASING:
Cond. Depth set: 40'
Cement sx used: 28

SPUD DATE/TIME: 5/14/2011 02:00

SURFACE HOLE:
Surface From depth: 40'
Surface To depth: 2,910
Total SURFACE hours: 27.00
Surface Casing size: 8 5/8" 28#
of casing joints ran: 65 JT/S
Casing set MD: 2887 KB
sx of cement: 220/200/250
Cement blend (ppg): 11.0/15.8/15.8
Cement yield (ft3/sk): 3.82/1.15/1.15
of bbis to surface: 36
Describe cement issues: NONE
Describe hole issues: NONE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	0:00 - 8:00	8.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/2360' T/2910 (550 ' @69 '/HR) PSI ON/ OFF 1660/1460, UP/ DOWN/ ROT 80/78/79. 130 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,MM 90 RPM, CIRCULATING RESERVE PIT// NO LOSSES (TD 11" SURF. HOLE)
	8:00 - 10:00	2.00	DRLSUR	05	C	P		CIRC & COND HOLE F/LD & 8 5/8" 28# SURF. CSG RUN
	10:00 - 15:00	5.00	DRLSUR	06	D	P		L/D DRILLSTRING,11" BHA & DIR TOOLS
	15:00 - 16:30	1.50	CSG	12	C	P		R/U T /RUN 8 5/8" 28# LT&C SURF. CSG, MOVE CATWALK AND PIPE RACKS, MOVE CSG OVER TO WORK AREA
	16:30 - 20:00	3.50	CSG	12	C	P		RUN FLOAT SHOE,SHOE JNT,BAFFEL & 64 JNTS 8 5/8" 28# LT&C SURF. CSG W/THE SHOE SET @2887' & THE BAFFLE @ 2841'
	20:00 - 20:30	0.50	CSG	01	E	P		RUN 200' OF 1" PIPE DN BACKSIDE, RIG DN & MOVE RIG OFF WELL
	20:30 - 22:00	1.50	CSG	12	E	P		HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 140 BBLs OF 8.3# H2O AHEAD. PUMP 20 BBLs OF 8.4# GEL WATER AHEAD. PUMP 220 SX(149.1 BBLs) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (42 BBLs) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W/176.6 BBLs OF 8.3# H2O. LIFT PRESSURE WAS 590 PSI, BUMP PLUG AND HOLD 1200 PSI FOR 5 MIN. FLOAT HELD,FULL RETURNS THRU OUT JOB, 36 BBL'S CMT TO SURFACE
	22:00 - 22:30	0.50	CSG	12	E	P		PUMP 1" TOP OUT W/150 SKS 15.8 PPG CLASS "G' CEMENT W/4% CAL2 & 1/4#SK FLOCELE
	22:30 - 23:30	1.00	CSG	13	A	P		WAIT ON CMT, CMT FELL 20'
	23:30 - 0:00	0.50	CSG	12	E	P		TOP OUT W/100 SKS 15.8 PPG CLASS "G' CEMENT W/4% CAL2 & 1/4#SK FLOCELE CMT TO SURFACE & STAYED (RELEASE RIG @ 00:00 5/16/2011
5/31/2011	6:00 - 18:00	12.00	MIRU	01	A	P		RD RT/ DRK DOWN @ 11:30 AM/ MIRU / 7 TRUCKS / 2 FORK LIFTS / 1CRANE/ 13 RW JONES EMPLOYEES / 16 H&P EMPLOYEES / 4 J&C EMPLOYEES / 5 MOUNTAIN WEST EMPLOYEES / BACK YARD & SUB SET IN / 100% OFF OLD LOCATION
	18:00 - 0:00	6.00	MIRU	01	A	P		W.O.DAYLIGHT
6/1/2011	0:00 - 6:00	6.00	MIRU	01	A	P		W.O. DAYLIGHT
	6:00 - 11:00	5.00	MIRU	01	A	P		MIRU / RURT / RAISE DRK @ 09:00 / CRANE OFF LOCATION @ 10:00 AM/ TRUCKS OFF LOCATION @ 10:30 AM/ RW JONES 4 TRUCKS & 2 FORK LIFTS - 9 MEN & J&C CRANE 1 - 4 MEN
	11:00 - 16:00	5.00	PRPSPD	14	A	P		NU BOP'S & EQUIPMENT
	16:00 - 16:30	0.50	PRPSPD	15	A	P		TEST SURFACE CSG TO 1500 PSI
	16:30 - 20:00	3.50	PRPSPD	15	A	P		TEST BOP'S & EQUIPMENT AS PER PROGRAM 250 LOW & 5000 HIGH ANNULAR 250 LOW & 2500 HIGH
	20:00 - 20:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	20:30 - 21:30	1.00	PRPSPD	06	A	P		PJSM R/U LD MACHINE
	21:30 - 22:30	1.00	PRPSPD	06	A	P		PJSM P/U BHA W/ WEATHERFORD / ORIENTATE & SCRIBE TOOLS - TEST SAME
	22:30 - 0:00	1.50	PRPSPD	06	A	P		TIH P/U HWT DP TO 1,004'
6/2/2011	0:00 - 3:30	3.50	PRPSPD	06	A	P		TIH / PU TUBULARS F/ 1,004' TO 2,805' TAG CMT
	3:30 - 4:00	0.50	PRPSPD	07	B	P		VERIFY DRK LEVEL OVER HOLE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:00 - 4:30	0.50	PRSPD	06	A	P		RD LAY DOWN MACHINE
	4:30 - 5:00	0.50	PRSPD	23		P		PRE SPUD MTG & INSPECTION
	5:00 - 6:00	1.00	PRSPD	02	F	P		DRILL CMT SHOE TRACK F/ 2,805' TO 2,904' CLEAN OUT RATHOLE TO 2,927'
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL/ SLIDE/ SURVEY F/ 2,927' TO 4,027' = 1,100' @122 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 122 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 1800/1500 PSI / MUD MOTOR RPM 115 / PU/SO/ROT WT128/108/118/ TORQUE ON/OFF BOTTOM 6K/2K / SLIDE 46' IN 35 MIN 4% OF FOOTAGE DRILLED 6 % OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG / MUD WT 8.5/ VIS 26 / MAX GAS 1680 UNITS OIL SHOW @ 3,450' / 15' FLARE
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 4,027'
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL/ SLIDE/ SURVEY F/ 4,027' TO 5,140' = 1,113' @ 131' FPH // WOB 15K-21K / TOP DRIVE RPM 40-60 / PUMP 122 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2050/1600 PSI / MUD MOTOR RPM 115 / PU/SO/ROT WT140/125/135/ TORQUE ON/OFF BOTTOM 6K/2K / SLIDE 78' IN 65 MIN 6% OF FOOTAGE DRILLED 12 % OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG / MAX GAS 2300 UNITS / WT 8.6 / VIS 28 / NO MUD LOSE / BOP DRILL
6/3/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL/ SLIDE/ SURVEY F/ 5,140' TO 6,050' = 910' @151.66' FPH // WOB 15K-21K / TOP DRIVE RPM 40-60 / PUMP 122 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2175/1750 PSI / MUD MOTOR RPM 115 / PU/SO/ROT WT155/130/150/ TORQUE ON/OFF BOTTOM 6K/2K / SLIDE 40' IN 35 MIN 6% OF FOOTAGE DRILLED 9 % OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG / MAX GAS 2300 UNITS / WT 8.6 / VIS 28 / NO MUD LOSE / NO FLARE
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL/ SLIDE/ SURVEY F/ 6,050' TO 7,059' = 1009' @112' FPH // WOB 15K-21K / TOP DRIVE RPM 40-60 / PUMP 122 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1875 PSI / MUD MOTOR RPM 115 / PU/SO/ROT WT182/148/167/ TORQUE ON/OFF BOTTOM 8K/5K / SLIDE 40' IN 40 MIN 4% OF FOOTAGE DRILLED 7 % OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG / MAX GAS 2950 UNITS / WT 8.6 / VIS 28 / NO MUD LOSE / NO FLARE / BOP DRILL
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 7,059' BTM'S UP GAS ON RIG SERVICE 1220 UNITS
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL/ SLIDE/ SURVEY F/ 7,059' TO 7,594' = 535' @ 63 FPH // WOB 15K-21K / TOP DRIVE RPM 40-55 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1650/1500 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT195/160/175 TORQUE ON/OFF BOTTOM 6/5 / SLIDE 20' IN 25 MIN 3% OF FOOTAGE DRILLED 4 % OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG / MAX GAS 1960 UNITS / WT 9.5/ VIS 34 / NO MUD LOSE / 30 FLARE / SHALE SLOUGHING MUD UP @ 7,275'

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/4/2011	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILL / SURVEY F/ 7,594' TO 8,188' = 594' @ 39.6 FPH // WOB 15K-21K / TOP DRIVE RPM 40-55 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1650/1500 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT195/160/175 TORQUE ON/OFF BOTTOM 6/5 MAX GAS 2620 UNITS / WT 10.0/ VIS 35 / NO MUD LOSE / NO FLARE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 8,188'
	15:00 - 0:00	9.00	DRLPRO	02	A	P		DRILL / SURVEY F/ 8,188' TO 8,612' = 424' @ 47.11 FPH // WOB 15K-21K / TOP DRIVE RPM 40-55 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1650/1500 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT205/165/185 TORQUE ON/OFF BOTTOM 7/5 MAX GAS 2540 UNITS / WT 10.6/ VIS 37 / NO MUD LOSE / NO FLARE
6/5/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 8,612' TO 8,913' = 301' @ 50.16 FPH // WOB 18K-21K / TOP DRIVE RPM 40-55 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2250 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT205/165/185 TORQUE ON/OFF BOTTOM 7/5 MAX GAS 4960 UNITS / WT 10.7/ VIS 37 / NO MUD LOSE / 15' FLARE 2 / 10 MUD CUT
	6:00 - 17:00	11.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 8,913' TO 9,513' = 600' @ 54.56 FPH // WOB 18K-21K / TOP DRIVE RPM 40-55 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2700/2450 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT220/175/195 TORQUE ON/OFF BOTTOM 9/7 MAX GAS 5265 UNITS / WT11.4 / VIS 40 / 100 BBL MUD LOSE / 20' FLARE / 5 % LCM
	17:00 - 17:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 9,513'
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILL / SURVEY F/ 9,513' TO 9,740' = 227' @ 35 FPH // WOB 18K-21K / TOP DRIVE RPM 40-55 / PUMP 95SPM = 427 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2250 PSI / MUD MOTOR RPM 90/ PU/SO/ROT WT225/175/200 TORQUE ON/OFF BOTTOM 7/5 MAX GAS 5965 UNITS / WT 11.5 / VIS 41 / 85 BBL MUD LOSE / 20' FLARE / 15% LCM
6/6/2011	0:00 - 8:00	8.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 9,740' TO 9,964' = 224' @ 28 FPH // WOB 18K-23K / TOP DRIVE RPM 40-55 / PUMP 95 SPM = 427 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2250 PSI / MUD MOTOR RPM 90/ PU/SO/ROT WT225/175/200 TORQUE ON/OFF BOTTOM 7/5 MAX GAS 1520 UNITS / WT 11.8 / VIS 41 / 45 BBL MUD LOSE / NO FLARE / 15% LCM
	8:00 - 13:30	5.50	DRLPRO	06	A	P		BIT TRIP F/ 9,964' TO BIT /TIGHT SPOT 5112'/ CHECK FOR RIG ALIGNMENT - OK / FUNCTION BOP'S
	13:30 - 14:30	1.00	DRLPRO	06	A	P		C/O BIT & MUD MTRS W/ WEATHERFORD / ORIENTATE & SCRIBE -TEST SAME
	14:30 - 16:30	2.00	DRLPRO	06	A	P		TIH W BHA # 2 TO 2,904'
	16:30 - 17:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 2,904'
	17:00 - 20:30	3.50	DRLPRO	06	A	P		CONT TO TIH F/ 2,904' TO 9798'
	20:30 - 21:00	0.50	DRLPRO	03	D	P		BREAK CIRC, W&R F/ 9798-9964,8' FILL

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 0:00	3.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 9964' TO 10,108 =144' @ 48 FPH / WOB 18K-22K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2615/2430 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 225/175/200 TORQUE ON/OFF BOTTOM 7/5 MAX GAS 2740 UNITS / WT 11.8 / VIS 41 / 45 BBL MUD LOSS / NO FLARE / 15% LCM
6/7/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 10,108' TO 10,425 =317=52.8 FPH / WOB 18K-22K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2730/2520 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 230/194/203 TORQUE ON/OFF BOTTOM 9/7 MAX GAS 2740 UNITS TRIP GAS / WT 12.0 / VIS 41 / 45 BBL MUD LOSS / NO FLARE / 15% LCM
	6:00 - 15:30	9.50	DRLPRO	02	B	P		DRILL / SURVEY F/ 10,425' TO 10,741 =316=33.2 FPH / WOB 18K-22K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2850/2600 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 234/196/ 213 TORQUE ON/OFF BOTTOM 8/6 / WT 12.3/ VIS 45 / 75 BBL MUD LOSS / 20% LCM /
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 10,741 TO 10,904 =163=20.3 FPH / WOB 18K-24K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2710/2550 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 230/197/215 TORQUE ON/OFF BOTTOM 6/7 MAX GAS 3340 UNITS TRIP GAS / WT 12.4 / VIS 45 / NO MUD LOSS / NO FLARE / 20% LCM
6/8/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 10,904 TO 11,027 =123=20.5 FPH / WOB 18K-24K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2710/2550 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 230/197/215 TORQUE ON/OFF BOTTOM 6/7 MAX GAS 3340 UNITS GAS / WT 12.4 / VIS 45 / NO MUD LOSS / 10' FLARE / 20% LCM
	6:00 - 9:30	3.50	DRLPRO	02	B	P		DRILL / SURVEY F/ 11,027 TO 11,121 =94=26.8 FPH / WOB 18K-24K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2750/2600 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 240/210/219 TORQUE ON/OFF BOTTOM 6/7 MAX GAS 3340 UNITS GAS / WT 12.6 VIS 45 LCM 25% / 220 BBL MUD LOSS
	9:30 - 11:00	1.50	DRLPRO	05	A	X		BUILDING MUD VOLUME & CIRC @ REDUCED PUMP RATE 360 GPM TO CONTROL MUD LOSSES / MW 12.6 VIS 46 LCM 26% / MUD LOSS 125 BBLs
	11:00 - 12:30	1.50	DRLPRO	02	B	P		DRILL/ F/ 11,121 TO 11,147 =26=17.3.8FPH / WOB 18K-25K / TOP DRIVE RPM 40-60 / PUMP 80 SPM = 360 GPM / PUMP PRESSURE ON/OFF BOTTOM 2000/1800 PSI / MUD MOTOR RPM 57 PU/SO/ROT WT 240/210/219 TORQUE ON/OFF BOTTOM 6/7 / WT 12.6 VIS 45 LCM 26% / 45 BBL MUD LOSS
	12:30 - 17:30	5.00	DRLPRO	06	A	P		TRIP FOR BIT / PUMP SLUG TOH / NO PROBLEMS / FLOW CHECK @ CSG SHOE / TOH / PULL MWD TOOL
	17:30 - 18:30	1.00	DRLPRO	06	A	P		FUNCT TEST PIPE & BLIND RAMS / CHANGE BIT / INSTALL MWD / SURFACE TEST TOLS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/9/2011	18:30 - 20:00	1.50	DRLPRO	06	A	P		TIH /W BHA /CHECK RIG ALIGNMENT / INSTALL ROTATING HEAD CIH, TO CSG SHOE BREAK CIRC
	20:00 - 20:30	0.50	DRLPRO	07	A	P		RIG SERVICE,CHECK CROWN O-MATIC
	20:30 - 23:30	3.00	DRLPRO	06	A	P		TIH F/3015-T/11,027 BREAK CIRC @6000-8500' NO PROMLEMS ,HOLE GOOD
	23:30 - 0:00	0.50	DRLPRO	03	C	P		W & R F/ 11,027 T/ 11,147 5' FILL
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 11,147 TO 11,370 =223'=37.1 FPH / WOB 18K-22K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2850/2500 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 238/210/221 TORQUE ON/OFF BOTTOM 6/7 MAX GAS 3135 UNITS MW 12.6 / VIS 44 / LCM 26% /45 BBL MUD LOSS SEEPAGE TO HOLE / BTMS UP TRIP GAS 3135 UNITS-10' FLARE
	6:00 - 12:30	6.50	DRLPRO	02	B	P		DRILL / SURVEY F/ 11,370 TO 11,615 TD =245'=37.6 FPH / WOB 18K-22K / TOP DRIVE RPM 40-60 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2750/2550 PSI / MUD MOTOR RPM 72 PU/SO/ROT WT 248/208 /225 / TORQUE ON/OFF BOTTOM 7/5/ MW 12.6 / VIS 42 / LCM 25% / NO MUD LOSS
	12:30 - 13:30	1.00	DRLPRO	05	C	P		CCH F/ WIPER TRIP,PUMP SWEEP
	13:30 - 17:30	4.00	DRLPRO	06	E	P		PUMP SLUG,TOH TO CSG SHOE 2907' FLOW CHECK / BREAK CIRC
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 21:30	3.50	DRLPRO	06	E	P		TIH BREAK CIRC @ 6000',8500 CIH,TO 11,520 WASH 95' TO BTM NO FILL
6/10/2011	21:30 - 23:30	2.00	DRLPRO	05	C	P		CCH / PUMP SWEEP / BTMS UP GAS 3135 UNITS 10' FLARE MUD CUT F/ 12.6 TO 12.1
	23:30 - 0:00	0.50	EVALPR	06	B	P		TOH F/ LOGS
	0:00 - 6:00	6.00	EVALPR	06	B	P		TOH F/ LOGS / NO PROBLEMS / FLOW CHECK @ CSG SHOE/ TOH / PULL ROT HEAD / LD DIR TOOLS,M MTR, BIT
	6:00 - 13:00	7.00	EVALPR	11	E	P		HSM W/ HALLIBURTON RU 7 RUN TRIPLE COMBO LOGGERS TD 11,611 DRILLERS TD 11,615 , RD SAME
	13:00 - 19:00	6.00	EVALPR	06	D	P		M/U BIT SUB & BIT,TIH W/ BHA,CHECK DERRICK FOR ALIGNMENT,INSTALL ROT HEAD,TIH BREAK CIRC @2900, 6000',8500 CIH,TO 11,520 WASH 95' TO BTM NO FILL
6/11/2011	19:00 - 20:30	1.50	EVALPR	05	B	P		CCH FOR CASING/ PUMP SWEEP / CIRC BTMS UP / NO FLARE / LOST 250 BBLs MUD SEEPAGE TO HOLE WHILE CIRC/ RU WEATHERFORD TO LDDS,PUMP SLUG
	20:30 - 0:00	3.50	EVALPR	06	D	P		HSM W/ WEATHERFORD TRS LDDS
	0:00 - 5:30	5.50	EVALPR	06	D	P		LDDS,/ FLOW CHECK @ CSG SHOE / PULL ROT RUBBER / LD BHA
	5:30 - 6:00	0.50	EVALPR	14	B	P		PULL WEAR BUSHING
	6:00 - 7:30	1.50	CSG	12	A			HSM W/ WEATHERFORD / CHANGE OUT DRILLING BAILS / RU TO RUN 41/2 CSG
	7:30 - 16:30	9.00	CSG	12	C	P		RUN CSG, 269 JTS 4.5 #11.6 P-110 BT&C CASING + RELATED TOOLS BREAKING CIRCULATION AT SELECTED INTERVALS,/ INSTALL ROTATING RUBBER / HOLD CASING @ 11,600 TO CIRCULATE & CEMENT
	16:30 - 17:30	1.00	CSG	05	D	P		CIRC F/ CMT R/D WEATHERFORD /BTMS UP GAS 3065 UNITS / NO FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)			UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 20:30	3.00	CSG	12	E	P		SAFETY MEETING (REVIEW J.S.A.) M.I.R.U. BJ EQUIPMENT / TEST PUMPS & LINES TO 4500 PSI / PUMP 40 BBLS H2O + 630 SX LEAD CEMENT @ 12.6 ppg (PREM LITE II + .25 pps CELLO FLAKE + 5 pps KOL SEAL + .05 lb/sx STATIC FREE + 10% bwoc BENTONITE + .2% bwoc SODIUM META SILICATE + .4 % R-3 + 151.4 BBLS FRESH WATER / (10.09 gal/sx, 1.93 yield) + 1500 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05lbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE +151.4 BBLS H2O / (5.90 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 180 BBLS H2O + ADDITIVES/ PLUG DOWN @ 2002 HOURS / FLOATS HELD W/ 2 BBLS H2O RETURNED TO INVENTORY W/ 10 BBLS LEAD CMT TO PIT LIFT PRESSURE @3450 PSI/ BUMP PRESSURE TO 4050 PSI/ TOP OF TAIL CEMENT CALCULATED @ 4975 / RIG DOWN CMT EQUIP/ CSG SHOE 11,600,FC @ 11,579 TOP OF MKR JT MV 8242' ,MKR JT WASATCH 5220'
	20:30 - 21:30	1.00	CSG	12	C	P		P/U BOPSTACK SET C-22 11X41/2 CASING SLIPS WITH 110 K / CUT OFF L/D LANDING JT

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No: PROPETRO 11/11, H&P 298/298	
Event: DRILLING		Start Date: 4/24/2011		End Date: 6/11/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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21:30	- 0:00	2.50	RDMO	14	A	P		NIPPLE DOWN BOP,CLEAN MUD TANKS RELEASE RIG TO NBU 921-20D4BS @ 23:59 HRS 06/11/2011
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CONDUCTOR CASING:

Cond. Depth set: 40'
Cement sx used: 28

SPUD DATE/TIME: 5/14/2011 02:00

SURFACE HOLE:

Surface From depth: 40'
Surface To depth: 2,910
Total SURFACE hours: 27.00
Surface Casing size: 8 5/8" 28#
of casing joints ran: 65 JT/S
Casing set MD: 2887 KB
sx of cement: 220/200/250
Cement blend (ppg): 11.0/15.8/15.8
Cement yield (ft3/sk): 3.82/1.15/1.15
of bbls to surface: 36
Describe cement issues: NONE
Describe hole issues: NONE

PRODUCTION:

Rig Move/Skid start date/time: 5/31/2011 6:00
Rig Move/Skid finish date/time: 6/1/2011 11:00
Total MOVE hours: 29.0
Prod Rig Spud date/time: 6/2/2011 5:00
Rig Release date/time: 6/12/2011 0:00
Total SPUD to RR hours: 235.0
Planned depth MD 11,611
Planned depth TVD 11611
Actual MD: 11,615
Actual TVD: 11,611
Open Wells \$
AFE \$
Open wells \$/ft:

PRODUCTION HOLE:

Prod. From depth: 2927
Prod. To depth: 11,615
Total PROD hours: 145.5
Log Depth: 11,611
Production Casing size: 4 1/2
of casing joints ran: 269
Casing set MD: 11,600.0
sx of cement: 2,130
Cement blend (ppg): 12.6 / 14.3
Cement yield (ft3/sk): 1.93 / 1.31
Est. TOC (Lead & Tail) or 2 Stage : 0 / 4950
Describe cement issues: 10 BBLS CMT TO PIT
Describe hole issues: none

DIRECTIONAL INFO: DIRECTIONAL

KOP: 0
Max angle: 3.94
Departure: 4.00
Max dogleg MD: 0.82/2712

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-17D	Wellbore No.	OH
Common Name	NBU 921-17D	Report Date	8/1/2011
Well Name	NBU 921-17D	Site	NBU 921-17D
Report No.	1	Event	COMPLETION
Project	UTAH-UINTAH	End Date	8/8/2011
Rig Name/No.		Active Datum	RKB @4,814.00ft (above Mean Sea Level)
Start Date	8/1/2011		
Spud Date	5/14/2011		
UWI	NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	8,454.0 (ft)-11,459.0 (ft)	Start Date/Time	8/1/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	36	End Date/Time	8/1/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	190	Net Perforation Interval	54.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.52 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			8,454.0	8,455.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				8,482.0	8,483.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,528.0	8,529.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,564.0	8,566.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,628.0	8,629.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,807.0	8,808.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,829.0	8,830.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,851.0	8,852.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,871.0	8,872.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,920.0	8,921.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,951.0	8,952.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,000.0	9,001.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,055.0	9,056.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,076.0	9,078.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,210.0	9,211.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,225.0	9,226.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,239.0	9,240.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,520.0	9,523.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,622.0	9,625.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,980.0	9,983.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				10,110.0	10,113.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				10,132.0	10,133.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				10,154.0	10,155.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,091.0	11,093.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,140.0	11,141.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,150.0	11,152.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,169.0	11,170.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,179.0	11,180.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,234.0	11,236.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,250.0	11,252.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,267.0	11,269.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,286.0	11,287.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,347.0	11,349.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,372.0	11,374.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,381.0	11,383.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				11,458.0	11,459.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17D	Spud Conductor: 5/11/2011	Spud Date: 5/14/2011
Project: UTAH-UINTAH	Site: NBU 921-17D	Rig Name No:
Event: COMPLETION	Start Date: 8/1/2011	End Date: 8/8/2011
Active Datum: RKB @4,814.00ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/3/2011	7:00 - 7:15	0.25	COMP	48		P		HSM. HIGH PSI LINES.
	7:15 - 18:00	10.75	COMP	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 19 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 63 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 30 MIN. LOST 24 PSI. BLEED OFF PSI. RDMO B&C QUICK TEST. MIRU J-W WIRE LINE CREW. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF AS PER STG 1 PERF DESIGN. (SHOT THE 1ST 1' GUN. P/U T/ SHOOT NEXT 2' GUN, MISFIRE. POOH, MAKE REPAIRS. RIH FINISH SHOOTING STG 1.) POOH, SWIFN. HSM. WIRE LINE SAFTY & HIGH PSI LINES.
8/4/2011	6:45 - 7:00	0.25	COMP	48	B	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011	Spud Date: 5/14/2011
Project: UTAH-UINTAH	Site: NBU 921-17D		Rig Name No:
Event: COMPLETION	Start Date: 8/1/2011	End Date: 8/8/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		<p>MIRU FRAC CREW. PSI TEST LINES T/ 9558 PSI. HELD FOR 15 MIN. LOST 239 PSI. BLEED OFF PSI.</p> <p>FRAC STG 1)WHP 2073 PSI, BRK 4455 PSI @ 4.8 BPM. ISIP 3965 PSI, FG .78. OPEN HOLE CALC @ 51.1 BPM @ 7287 PSI = 100% HOLES OPEN. ISIP 4268 PSI, FG .81, NPI 303 PSI. MP 8134 PSI, MR 53.7 BPM, AP 6335 PSI, AR 50.7 BPM, PMP 2578 BBLS SW & 54,736 LBS OF 30/50 TLC SND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 10K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 11,317'. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 3585 PSI, BRK 6791 PSI @ 4.8 BPM. ISIP 4694 PSI, FG .85. OPEN HOLE CALC @ 49.7 BPM @ 8496 PSI = 100% HOLES OPEN. ISIP 4157 PSI, FG .80, NPI -537 PSI. MP 8671 PSI, MR 52.2 BPM, AP 7725 PSI, AR 49.8 BPM, PMP 2621 BBLS SW & 59,927 LBS OF 30/50 SND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 10K CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 11,210' P/U PERF AS PER STG 3 PERF DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 1570 PSI, BRK 4916 PSI @ 5.6 BPM. ISIP 4169 PSI, FG .81. OPEN HOLE CALC @ 50.7 BPM @ 5950 PSI = 100% HOLES OPEN. ISIP 4169 PSI, FG .81, NPI 0 PSI. MP 7164 PSI, MR 51.1 BPM, AP 5975 PSI, AR 50.6 BPM, PMP 3642 BBLS SW & 80,145 LBS OF 30/50 SND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM,.36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,205' P/U PERF AS PER STG 4 PERF DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4)WHP 1588 PSI, BRK 4044 PSI @ 4.9 BPM. ISIP 2896 PSI, FG .72. OPEN HOLE CALC @ 51.2 BPM @ 5582 PSI = 100% HOLES OPEN. ISIP 3439 PSI, FG .77, NPI 543 PSI. MP 6172 PSI, MR 51.8 BPM, AP 5320 PSI, AR 51.2 BPM, PMP 1101 BBLS SW & 21,186 LBS OF 30/50 SND. SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9675' P/U PERF AS PER STG 5 PERF DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 1224 PSI, BRK 3982 PSI @ 5.1</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D			Rig Name No:
Event: COMPLETION		Start Date: 8/1/2011		End Date: 8/8/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)			UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								BPM. ISIP 2703 PSI, FG .77. OPEN HOLE CALC @ 46 BPM @ 6341 PSI = 80% HOLES OPEN. ISIP 2914 PSI, FG .74, NPI 211 PSI. MP 6382 PSI, MR 52.5 BPM, AP 5500 PSI, AR 47.8 BPM, PMP 641 BBLS SW & 10,546 LBS OF 30/50 SND. SWIFN.
8/5/2011	7:00 - 7:15	0.25	COMP	48		P		PERF STG 6 IN THE :AM. HSM. HIGH PSI LINES. TRIP HAZARDS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No:	
Event: COMPLETION		Start Date: 8/1/2011		End Date: 8/8/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	B	P		<p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9264' P/U PERF AS PER STG 6 DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 1069 PSI, BRK 3895 PSI @ 5.1 BPM. ISIP 3165 PSI, FG .78. OPEN HOLE CALC @ 51.4 BPM @ 4946 PSI = 100% HOLES OPEN. ISIP 3194 PSI, FG .78, NPI 29 PSI. MP 5459 PSI, MR 52.6 BPM, AP 4780 PSI, AR 51.8 BPM, PMP 633 BBLS SW & 10,923 LBS OF 30/50 SND. SWI, X-OVER FOR WL</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9031' P/U PERF AS PER STG 7 PERF DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 1886 PSI, BRK 3608 PSI @ 5.7 BPM. ISIP 2616 PSI, FG .73. OPEN HOLE CALC @ 50 BPM @ 6510 PSI = 100% HOLES OPEN. ISIP 3077 PSI, FG .78, NPI 461 PSI. MP 6510 PSI, MR 52 BPM, AP 5800 PSI, AR 50.2 BPM, PMP 625 BBLS SW & 10,184 LBS OF 30/50 SND. SWI, X-OVER FOR WL</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8658' P/U PERF AS PER STG 8 PERF DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 1483 PSI, BRK 4823 PSI @ 4.9 BPM. ISIP 2674 PSI, FG .75. OPEN HOLE CALC @ 51.8 BPM @ 5716 PSI = 100% HOLES OPEN. ISIP 2500 PSI, FG .73, NPI -174 PSI. MP 6382 PSI, MR 53.7 BPM, AP 4720 PSI, AR 52 BPM, PMP 800 BBLS SW & 16,116 LBS OF 30/50 SND. SWI, X-OVER FOR WL. DONE FRACING THIS WELL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 8400. POOH, SWI. RDMO J-W WIRE LINE & FRAC TECH SERV. MIRU RIG ND FRAC VALVE NU 10K BOPS, RU FLOOR & TBG EQUIP SWI SDFN.</p> <p>TOTAL SAND = 263,763 LBS TOTAL CLFL = 12,641 BBL TOTAL SCALE = 1377 TOTAL BIO = 290 HSM, D/O CBPS</p>
8/8/2011	7:00 - 7:30	0.50	COMP	48		P		PU 37/8 BIT, POBS, 1.875 X/N, & JTS 23/8 L-80
	7:30 - 12:30	5.00	COMP	31		P		TBG OFF FLOAT. RU SWIVEL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D		Spud Conductor: 5/11/2011		Spud Date: 5/14/2011	
Project: UTAH-UINTAH		Site: NBU 921-17D		Rig Name No:	
Event: COMPLETION		Start Date: 8/1/2011		End Date: 8/8/2011	
Active Datum: RKB @4,814.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 19:00	6.50	COMP	44	C	P		<p>BROKE CIRC CONVENTIONAL TEST BOPS TO 3,000 PSI FOR 15 MIN, NO PSI LOSS, RIH.</p> <p>C/O 5' SAND TAG 1ST PLUG @ 8400' DRL PLG IN 8 MIN 500# PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 2ND PLUG @ 8650' DRL PLG IN 7 MIN 1300# PSI INCREASE RIH</p> <p>C/O 25' SAND TAG 3RD PLUG @ 9031' DRL PLG IN 10 MIN 1000# PSI INCREASE RIH</p> <p>C/O 5' SAND TAG 4TH PLUG @ 9264' DRL PLG IN 10 MIN 700# PSI INCREASE RIH</p> <p>C/O 50' SAND TAG 5TH PLUG @ 9675' DRL PLG IN 5 MIN 1000# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 6TH PLUG @ 10,205' DRL PLG IN 5 MIN 1300# PSI INCREASE RIH</p> <p>C/O 25' SAND TAG 7TH PLUG @ 11,210' DRL PLG IN 13 MIN 1000# PSI INCREASE. RIH</p> <p>C/O 35' SAND TAG 8TH PLUG @ 11,317' DRL PLG IN 8 MIN 1000# PSI INCREASE. RIH</p> <p>C/O TO @ 11,577' CIRC CLEAN, RACK OUT SWIVEL. L/D 15 JTS, LAND TBG ON 349 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL. TURN WELL OVER TO FB CREW. SDFN</p> <p>SICP = 0000 FTP = 100</p> <p>KB = 26'</p> <p>HANGER 41/16 = .83'</p> <p>349 JTS 23/8 L-80 = 11065.44' (SURFAC VALVE OPEN W/ POP OFF ASSEMBLY)</p> <p>1.875 X/N & POBS = 2.20'</p> <p>EOT @ 11,094.47'</p> <p>TWTR = 12,943 BBLS</p> <p>TWR = 1800 BBLS</p> <p>TWLTR = 11,143 BBLS</p> <p>368 JTS HAULED OUT</p> <p>349 LANDED</p> <p>19 TO RETURN</p>
8/9/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3825#, TP 3600#, 18/64" CK, 40 BWPH, LIGHT SAND, 2.9 GAS</p> <p>TTL BBLS RECOVERED: 2452</p> <p>BBLS LEFT TO RECOVER: 10491</p>
8/10/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 4500#, TP 3725#, 18/64" CK, 33 BWPH, LIGHT SAND, 4.5 GAS</p> <p>TTL BBLS RECOVERED: 3314</p> <p>BBLS LEFT TO RECOVER: 9629</p>
8/11/2011	7:00 -			50				<p>WELL IP'D ON 8/11/11 - 3843 MCFD, 0 BOPD, 720 BOPD, CP 1045#, FTP 2475#, CK 18/64", LP 141#, 24 HRS</p>
	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 4200#, TP 3450#, 18/64" CK, 25 BWPH, LIGHT SAND, 4.1 GAS</p> <p>TTL BBLS RECOVERED: 4034</p> <p>BBLS LEFT TO RECOVER: 8909</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17D			Spud Conductor: 5/11/2011				Spud Date: 5/14/2011		
Project: UTAH-UINTAH			Site: NBU 921-17D					Rig Name No:	
Event: COMPLETION			Start Date: 8/1/2011			End Date: 8/8/2011			
Active Datum: RKB @4,814.00ft (above Mean Sea Level)				UWI: NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/418/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
8/12/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 4250#, TP 3575#, 16/64" CK, 15 BWPH, LIGHT SAND, 3.6 GAS TTL BBLS RECOVERED: 4503 BBLS LEFT TO RECOVER: 8440	
8/13/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 4100#, TP 3475#, 16/64" CK, 13 BWPH, LIGHT SAND, 3.6 GAS TTL BBLS RECOVERED: 4869 BBLS LEFT TO RECOVER: 8074	

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-17D	Wellbore No.	OH
Well Name	NBU 921-17D	Common Name	NBU 921-17D
Project	UTAH-UINTAH	Site	NBU 921-17D
Vertical Section Azimuth	0.00 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	5/14/2011	UWI	NW/NW/0/9/S/21/E/17/0/0/26/PM/N/985/W/0/41 8/0/0
Active Datum	RKB @4,814.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: SURF. DEVIATION

Survey Name	SURF. DEVIATION	Company	WEATHERFORD
Started	5/14/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
22.00	0.00	0.00	22.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
5/14/2011	Tie On	22.00	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/14/2011	NORMAL	285.00	0.06	339.04	285.00	0.13	-0.05	0.13	0.02	0.02	0.00	339.04
	NORMAL	372.00	0.02	17.88	372.00	0.19	-0.06	0.19	0.05	-0.05	44.64	164.23
	NORMAL	462.00	0.22	176.20	462.00	0.03	-0.04	0.03	0.27	0.22	175.91	160.09
	NORMAL	552.00	0.19	106.41	552.00	-0.19	0.11	-0.19	0.26	-0.03	-77.54	-130.88
	NORMAL	642.00	0.31	86.54	642.00	-0.21	0.50	-0.21	0.16	0.13	-22.08	-46.06
	NORMAL	732.00	0.31	86.91	732.00	-0.19	0.98	-0.19	0.00	0.00	0.41	90.19
	NORMAL	822.00	0.56	90.29	821.99	-0.18	1.67	-0.18	0.28	0.28	3.76	7.55
	NORMAL	912.00	0.19	63.54	911.99	-0.11	2.24	-0.11	0.44	-0.41	-29.72	-167.64
	NORMAL	1,002.00	0.31	49.79	1,001.99	0.11	2.56	0.11	0.15	0.13	-15.28	-33.55
	NORMAL	1,092.00	0.44	52.04	1,091.99	0.48	3.02	0.48	0.15	0.14	2.50	7.59
	NORMAL	1,182.00	0.50	56.04	1,181.99	0.91	3.61	0.91	0.08	0.07	4.44	30.68
	NORMAL	1,272.00	0.63	59.04	1,271.98	1.39	4.36	1.39	0.15	0.14	3.33	14.32
	NORMAL	1,362.00	0.69	44.66	1,361.98	2.03	5.17	2.03	0.20	0.07	-15.98	-77.37
	NORMAL	1,452.00	0.50	47.04	1,451.97	2.68	5.84	2.68	0.21	-0.21	2.64	173.78
	NORMAL	1,542.00	0.50	50.41	1,541.97	3.20	6.43	3.20	0.03	0.00	3.74	91.68
	NORMAL	1,632.00	0.19	49.04	1,631.97	3.55	6.84	3.55	0.34	-0.34	-1.52	-179.16
	NORMAL	1,722.00	0.25	130.91	1,721.97	3.52	7.10	3.52	0.32	0.07	90.97	122.00
	NORMAL	1,812.00	0.44	139.29	1,811.96	3.13	7.48	3.13	0.22	0.21	9.31	19.09
	NORMAL	1,902.00	0.44	159.16	1,901.96	2.54	7.83	2.54	0.17	0.00	22.08	99.93
	NORMAL	1,992.00	0.50	168.79	1,991.96	1.83	8.03	1.83	0.11	0.07	10.70	57.66

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
5/14/2011	NORMAL	2,082.00	0.63	173.66	2,081.95	0.96	8.16	0.96	0.15	0.14	5.41	22.72
	NORMAL	2,172.00	0.75	179.41	2,171.95	-0.12	8.22	-0.12	0.15	0.13	6.39	32.88
	NORMAL	2,262.00	0.63	180.04	2,261.94	-1.21	8.22	-1.21	0.13	-0.13	0.70	176.70
5/15/2011	NORMAL	2,352.00	0.75	178.91	2,351.93	-2.29	8.23	-2.29	0.13	0.13	-1.26	-7.03
	NORMAL	2,442.00	0.94	191.16	2,441.92	-3.61	8.10	-3.61	0.29	0.21	13.61	49.79
	NORMAL	2,532.00	0.94	182.41	2,531.91	-5.07	7.93	-5.07	0.16	0.00	-9.72	-94.37
	NORMAL	2,622.00	1.19	186.04	2,621.90	-6.73	7.80	-6.73	0.29	0.28	4.03	16.92
	NORMAL	2,712.00	0.88	224.16	2,711.88	-8.16	7.22	-8.16	0.82	-0.34	42.36	132.49
	NORMAL	2,802.00	1.06	239.41	2,801.87	-9.08	6.02	-9.08	0.35	0.20	16.94	62.90
	NORMAL	2,892.00	1.41	221.57	2,891.85	-10.33	4.57	-10.33	0.57	0.39	-19.82	-56.84

2.2 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERORD
Started	6/1/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,872.00	1.41	221.57	2,871.85	-10.05	4.89

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6/1/2011	Tie On	2,872.00	1.41	221.57	2,871.85	-10.05	4.89	-10.05	0.00	0.00	0.00	0.00
6/2/2011	NORMAL	2,938.00	1.40	222.61	2,937.83	-11.25	3.81	-11.25	0.04	-0.02	1.58	111.93
	NORMAL	3,033.00	1.36	214.62	3,032.80	-13.03	2.38	-13.03	0.21	-0.04	-8.41	-105.72
	NORMAL	3,127.00	0.12	170.94	3,126.79	-14.05	1.76	-14.05	1.36	-1.32	-46.47	-176.28
	NORMAL	3,222.00	1.50	10.78	3,221.78	-12.92	2.01	-12.92	1.70	1.45	-168.59	-161.61
	NORMAL	3,316.00	1.06	354.78	3,315.76	-10.85	2.16	-10.85	0.60	-0.47	-17.02	-148.73
	NORMAL	3,411.00	0.75	340.15	3,410.75	-9.39	1.87	-9.39	0.40	-0.33	-15.40	-150.46
	NORMAL	3,505.00	0.69	324.03	3,504.74	-8.35	1.33	-8.35	0.22	-0.06	-17.15	-114.46
	NORMAL	3,600.00	0.56	280.53	3,599.74	-7.81	0.54	-7.81	0.50	-0.14	-45.79	-126.36
	NORMAL	3,695.00	0.63	249.90	3,694.73	-7.90	-0.41	-7.90	0.34	0.07	-32.24	-93.19
	NORMAL	3,789.00	1.19	7.15	3,788.72	-7.11	-0.78	-7.11	1.68	0.60	124.73	137.99
	NORMAL	3,884.00	0.56	348.15	3,883.71	-5.68	-0.75	-5.68	0.72	-0.66	-20.00	-164.57
	NORMAL	3,979.00	0.31	294.90	3,978.71	-5.11	-1.08	-5.11	0.47	-0.26	-56.05	-146.45
	NORMAL	4,074.00	0.56	261.40	4,073.71	-5.07	-1.77	-5.07	0.36	0.26	-35.26	-63.07
	NORMAL	4,168.00	1.38	9.90	4,167.70	-4.03	-2.03	-4.03	1.75	0.87	115.43	127.32
	NORMAL	4,262.00	1.06	10.90	4,261.68	-2.06	-1.67	-2.06	0.34	-0.34	1.06	176.69
	NORMAL	4,357.00	0.31	338.40	4,356.67	-0.96	-1.60	-0.96	0.86	-0.79	-34.21	-168.22
	NORMAL	4,452.00	1.06	49.15	4,451.66	-0.14	-1.03	-0.14	1.05	0.79	74.47	87.74
	NORMAL	4,547.00	0.69	123.40	4,546.65	0.12	0.11	0.12	1.15	-0.39	78.16	142.73
	NORMAL	4,641.00	1.25	342.28	4,640.65	0.78	0.28	0.78	1.96	0.60	-150.13	-154.74
	NORMAL	4,736.00	0.75	309.65	4,735.63	2.16	-0.52	2.16	0.78	-0.53	-34.35	-146.81
	NORMAL	4,831.00	0.63	291.65	4,830.63	2.75	-1.48	2.75	0.26	-0.13	-18.95	-127.77
6/3/2011	NORMAL	4,926.00	1.94	6.65	4,925.60	4.54	-1.78	4.54	1.98	1.38	78.95	93.90
	NORMAL	5,021.00	1.63	2.15	5,020.56	7.49	-1.55	7.49	0.36	-0.33	-4.74	-157.91
	NORMAL	5,115.00	0.63	358.65	5,114.54	9.34	-1.51	9.34	1.07	-1.06	-3.72	-177.80
	NORMAL	5,210.00	0.19	272.78	5,209.54	9.87	-1.68	9.87	0.68	-0.46	-90.39	-162.91
	NORMAL	5,305.00	2.00	1.65	5,304.52	11.54	-1.79	11.54	2.11	1.91	93.55	94.30
	NORMAL	5,400.00	2.06	353.90	5,399.46	14.89	-1.92	14.89	0.30	0.06	-8.16	-81.56
	NORMAL	5,494.00	1.50	347.90	5,493.41	17.78	-2.36	17.78	0.63	-0.60	-6.38	-164.58

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6/3/2011	NORMAL	5,589.00	1.19	0.36	5,588.39	19.98	-2.61	19.98	0.45	-0.33	13.12	142.78
	NORMAL	5,684.00	1.00	355.53	5,683.37	21.79	-2.67	21.79	0.22	-0.20	-5.08	-156.49
	NORMAL	5,778.00	2.50	357.03	5,777.32	24.66	-2.84	24.66	1.60	1.60	1.60	2.50
	NORMAL	5,873.00	2.25	359.15	5,872.24	28.59	-2.98	28.59	0.28	-0.26	2.23	161.70
	NORMAL	5,968.00	1.88	5.65	5,967.18	32.01	-2.85	32.01	0.46	-0.39	6.84	150.89
	NORMAL	6,063.00	1.50	10.53	6,062.14	34.78	-2.47	34.78	0.43	-0.40	5.14	161.68
	NORMAL	6,157.00	1.06	8.90	6,156.11	36.85	-2.11	36.85	0.47	-0.47	-1.73	-176.08
	NORMAL	6,251.00	2.19	341.65	6,250.08	39.41	-2.54	39.41	1.42	1.20	-28.99	-48.50
	NORMAL	6,346.00	1.88	339.90	6,345.02	42.60	-3.65	42.60	0.33	-0.33	-1.84	-169.54
	NORMAL	6,440.00	1.56	339.53	6,438.97	45.24	-4.63	45.24	0.34	-0.34	-0.39	-178.20
	NORMAL	6,535.00	1.38	336.15	6,533.94	47.50	-5.54	47.50	0.21	-0.19	-3.56	-155.96
	NORMAL	6,629.00	1.00	331.78	6,627.92	49.26	-6.39	49.26	0.42	-0.40	-4.65	-168.75
	NORMAL	6,723.00	0.63	329.40	6,721.91	50.43	-7.04	50.43	0.40	-0.39	-2.53	-175.96
	NORMAL	6,818.00	2.06	297.15	6,816.88	51.66	-8.82	51.66	1.65	1.51	-33.95	-44.66
	NORMAL	6,912.00	2.13	287.28	6,910.82	52.95	-11.99	52.95	0.39	0.07	-10.50	-83.98
	NORMAL	7,007.00	1.81	280.27	7,005.77	53.74	-15.16	53.74	0.42	-0.34	-7.38	-146.49
	NORMAL	7,101.00	1.69	269.28	7,099.72	53.99	-18.00	53.99	0.38	-0.13	-11.69	-115.11
	NORMAL	7,196.00	2.06	296.53	7,194.67	54.73	-20.93	54.73	1.00	0.39	28.68	81.47
	NORMAL	7,290.00	2.31	295.72	7,288.60	56.31	-24.15	56.31	0.27	0.27	-0.86	-7.45
	NORMAL	7,384.00	1.13	358.53	7,382.57	58.06	-25.88	58.06	2.19	-1.26	66.82	150.73
	NORMAL	7,479.00	1.31	19.40	7,477.55	60.02	-25.54	60.02	0.50	0.19	21.97	78.60
	NORMAL	7,573.00	0.94	16.53	7,571.53	61.77	-24.97	61.77	0.40	-0.39	-3.05	-172.77
	NORMAL	7,668.00	0.75	26.78	7,666.52	63.07	-24.46	63.07	0.25	-0.20	10.79	146.54
6/4/2011	NORMAL	7,762.00	0.75	40.03	7,760.51	64.09	-23.79	64.09	0.18	0.00	14.10	96.62
	NORMAL	7,856.00	0.56	55.03	7,854.50	64.83	-23.02	64.83	0.27	-0.20	15.96	145.27
	NORMAL	7,951.00	0.44	66.53	7,949.50	65.24	-22.30	65.24	0.16	-0.13	12.11	145.75
	NORMAL	8,045.00	0.19	64.40	8,043.50	65.45	-21.83	65.45	0.27	-0.27	-2.27	-178.38
	NORMAL	8,140.00	0.13	138.78	8,138.50	65.44	-21.62	65.44	0.21	-0.06	78.29	141.07
	NORMAL	8,234.00	0.25	164.53	8,232.50	65.16	-21.49	65.16	0.15	0.13	27.39	48.77
	NORMAL	8,329.00	0.75	187.78	8,327.49	64.34	-21.52	64.34	0.56	0.53	24.47	33.99
	NORMAL	8,517.00	1.44	195.40	8,515.46	60.85	-22.32	60.85	0.37	0.37	4.05	15.74
6/5/2011	NORMAL	8,612.00	1.50	194.03	8,610.43	58.49	-22.94	58.49	0.07	0.06	-1.44	-31.05
	NORMAL	8,706.00	1.63	185.15	8,704.39	55.96	-23.35	55.96	0.29	0.14	-9.45	-66.29
	NORMAL	8,800.00	1.56	185.28	8,798.36	53.36	-23.59	53.36	0.07	-0.07	0.14	177.11
	NORMAL	8,895.00	1.85	183.65	8,893.31	50.54	-23.81	50.54	0.31	0.31	-1.72	-10.31
	NORMAL	8,989.00	1.88	177.40	8,987.26	47.49	-23.84	47.49	0.22	0.03	-6.65	-84.74
	NORMAL	9,084.00	2.00	172.65	9,082.21	44.28	-23.55	44.28	0.21	0.13	-5.00	-55.66
	NORMAL	9,178.00	2.31	163.90	9,176.14	40.84	-22.82	40.84	0.48	0.33	-9.31	-51.13
	NORMAL	9,272.00	2.31	151.53	9,270.07	37.35	-21.39	37.35	0.53	0.00	-13.16	-96.18
	NORMAL	9,367.00	2.81	147.78	9,364.97	33.70	-19.23	33.70	0.55	0.53	-3.95	-20.40
	NORMAL	9,461.00	2.94	145.53	9,458.85	29.76	-16.64	29.76	0.18	0.14	-2.39	-42.09
	NORMAL	9,555.00	3.19	145.28	9,552.72	25.63	-13.79	25.63	0.27	0.27	-0.27	-3.19
	NORMAL	9,650.00	3.25	144.03	9,647.57	21.27	-10.70	21.27	0.10	0.06	-1.32	-50.11
6/6/2011	NORMAL	9,744.00	3.56	143.76	9,741.40	16.76	-7.41	16.76	0.33	0.33	-0.29	-3.10
	NORMAL	9,839.00	3.94	146.15	9,836.20	11.67	-3.85	11.67	0.43	0.40	2.52	23.56
	NORMAL	9,937.00	3.75	146.03	9,933.98	6.22	-0.18	6.22	0.19	-0.19	-0.12	-177.63
	NORMAL	10,031.00	3.38	147.03	10,027.80	1.35	3.04	1.35	0.40	-0.39	1.06	170.96
6/7/2011	NORMAL	10,126.00	3.00	149.40	10,122.65	-3.14	5.83	-3.14	0.42	-0.40	2.49	162.04
	NORMAL	10,220.00	3.00	152.28	10,216.52	-7.44	8.23	-7.44	0.16	0.00	3.06	91.44
	NORMAL	10,315.00	3.00	149.40	10,311.39	-11.78	10.65	-11.78	0.16	0.00	-3.03	-91.44
	NORMAL	10,409.00	3.06	146.65	10,405.26	-15.99	13.28	-15.99	0.17	0.06	-2.93	-68.95
	NORMAL	10,504.00	3.06	149.15	10,500.12	-20.29	15.98	-20.29	0.14	0.00	2.63	91.25
	NORMAL	10,599.00	3.13	152.90	10,594.99	-24.77	18.46	-24.77	0.23	0.07	3.95	72.81
	NORMAL	10,693.00	2.88	151.15	10,688.86	-29.13	20.77	-29.13	0.28	-0.27	-1.86	-160.72
	NORMAL	10,788.00	2.81	151.40	10,783.74	-33.26	23.03	-33.26	0.07	-0.07	0.26	170.07
	NORMAL	10,882.00	2.69	155.15	10,877.63	-37.28	25.06	-37.28	0.23	-0.13	3.99	125.57
6/8/2011	NORMAL	10,977.00	2.75	159.15	10,972.52	-41.44	26.81	-41.44	0.21	0.06	4.21	74.46

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6/8/2011	NORMAL	11,071.00	2.94	156.15	11,066.41	-45.75	28.59	-45.75	0.26	0.20	-3.19	-39.59
6/9/2011	NORMAL	11,166.00	2.94	157.65	11,161.28	-50.23	30.50	-50.23	0.08	0.00	1.58	90.75
	NORMAL	11,260.00	3.13	156.15	11,255.15	-54.81	32.45	-54.81	0.22	0.20	-1.60	-23.43
	NORMAL	11,355.00	3.00	156.90	11,350.02	-59.47	34.48	-59.47	0.14	-0.14	0.79	163.23
	NORMAL	11,534.00	3.13	153.53	11,528.76	-68.15	38.49	-68.15	0.12	0.07	-1.88	-55.88
	NORMAL	11,565.00	3.13	153.53	11,559.71	-69.66	39.25	-69.66	0.00	0.00	0.00	0.00
	NORMAL	11,615.00	3.13	153.53	11,609.64	-72.11	40.47	-72.11	0.00	0.00	0.00	0.00